

## Method development

List of methods entirely or partly developed by Informus in alphabetical order.

Name	Customer	Description
AVI	In-house development	<p>Aquatic Vegetation Index (AVI).</p> <p>Assessing the chlorophyll concentration in highly productive waters from Earth observation. The method is based on observations of the water colour in the red and near infrared portion of the spectrum. It provides reasonable results for chlorophyll-a concentrations between 10 and 200 mg/m<sup>3</sup>. Local performance can be enhanced by tuning the coefficients with available in situ data.</p> <p>The method has been integrated into the SISCAL system for operational delivery of EO-based water quality information.</p>
HEIA-MU	German Federal Ministry of Environment (BMU)	<p>Harmonised environmental impact assessment of marine uses (HEIA-MU).</p> <p>Simplified approach with the aim to provide a cross-national harmonised initial assessment of the environmental impact of new marine uses.</p> <p>The method has been applied to macroalgae harvesting and cultivation, mussel cultivation, reed harvesting, large scale microalgae cultivation, blue biotechnology, wave energy, fish aquaculture and combination with offshore wind parks in the Baltic Sea region.</p>
KD490	Freie Universität Berlin, Ocean University of Qingdao	<p>Diffuse attenuation coefficient at 490 nm (KD490).</p> <p>Estimating the diffuse attenuation coefficient KD at 490 nm from the spectral water leaving reflectance using an empirical relationship derived from the NOMAD dataset. The good performance of the method over a large range of KD490 values is due to the use of two colour ratios for smaller and larger KD490 values.</p> <p>The method has been integrated into the SISCAL system for operational delivery of EO-based water quality information.</p>

Name	Customer	Description
KYRGYBOGS	Humboldt Universität zu Berlin	<p>Mapping peatbogs in Kyrgyzstan (KYRGYBOGS)</p> <p>Probability-based approach to identify peatbogs in Kyrgyzstan (Central Asia) from multispectral and multitemporal Landsat TM/ETM+ imagery, supported by ancillary information such as digital elevation data and topographic maps.</p> <p>The method is currently (2013) being developed and has provided promising initial results.</p>
TCDR-EVAL	EUMETSAT	<p>Evaluation of thematic climate data records (TCDR-EVAL).</p> <p>Establishing a generic method for the assessment of thematic climate data records implementing the requirements of the Global Climate Observing System (GCOS).</p> <p>The method has been developed and applied in the context of the evaluation of EUMETSAT's Meteosat Surface Albedo (MSA) TCDR.</p>
SUK-ÜV	Ministry of Environment, Federal State of Mecklenburg-Vorpommern	<p>Seeuferkartierung - Übersichtsverfahren (SUK-ÜV).</p> <p>Mapping the morphology of lake shores in the Northern European lowlands. The method is based on pre-existing knowledge and requires as a minimum aerial imagery, lake bathymetry as well as topographical and geological maps.</p> <p>The method has been operationally applied in the German Federal States of Mecklenburg-Vorpommern, Schleswig-Holstein and Berlin.</p>